#### § 174.750

at least 7.6 cm (3 inches) high in a conspicuous place on both sides of the exterior of the transport vehicle, and it must be kept closed at all times other than during loading and unloading.

[Amdt. 174-80, 60 FR 50332, Sept. 28, 1995, as amended by 66 FR 45383, Aug. 28, 2001]

#### § 174.750 Incidents involving leakage.

(a) In addition to the incident reporting requirements of §§171.15 and 171.16 of this subchapter, the carrier shall also notify the offeror at the earliest practicable moment following any incident in which there has been breakage, spillage, or suspected radioactive contamination involving Class 7 (radioactive) materials shipments. Transport vehicles, buildings, areas, or equipment in which Class 7 (radioactive) materials have been spilled may not be again placed in service or routinely occupied until the radiation dose rate at every accessible surface is less than 0.005 mSv per hour (0.5 mrem per hour) and there is no significant removable radioactive surface contamination §173.443 of this subchapter).

(b) The package or materials should be segregated as far as practicable from personnel contact. If radiological advice or assistance is needed, the U.S. Department of Energy (DOE) should also be notified. In case of obvious leakage, or if it appears likely that the inside container may have been damaged, care should be taken to avoid inhalation, ingestion, or contact with the Class 7 (radioactive) material. Any loose Class 7 (radioactive) materials should be left in a segregated area and held pending disposal instructions, from qualified persons.

[Amdt. 174–26, 41 FR 16092, Apr. 15, 1976, as amended by Amdt. 174–42, 48 FR 10245, Mar. 10, 1983; Amdt. 174–61, 51 FR 34987, Oct. 1, 1986; Amdt. 174–65, 53 FR 38274, Sept. 29, 1988; Amdt. 174–68, 55 FR 52684, Dec. 21, 1990; Amdt. 174–80, 60 FR 50332, Sept. 28, 1995]

#### PART 175—CARRIAGE BY AIRCRAFT

### Subpart A—General Information and Regulations

Sec.

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AUTHORITY: 49 U.S.C. 5101-5128, 44701; 49 CFR 1.45 and 1.53.

SOURCE: 71 FR 14604, Mar. 22, 2006, unless otherwise noted.

# Subpart A—General Information and Regulations

### § 175.1 Purpose, scope and applicability.

- (a) This part prescribes requirements that apply to the transportation of hazardous materials in commerce aboard (including attached to or suspended from) aircraft. The requirements in this part are in addition to other requirements contained in parts 171, 172, 173, 178, and 180 of this subchapter.
- (b) This part applies to the offering, acceptance, and transportation of hazardous materials in commerce by aircraft to, from, or within the United States, and to any aircraft of United States registry anywhere in air commerce. This subchapter applies to any person who performs, attempts to perform, or is required to perform any function subject to this subchapter, including—(1) Air carriers, indirect air carriers, and freight forwarders and their flight and non-flight employees, agents, subsidiary and contract personnel (including cargo, passenger and baggage acceptance, handling, loading and unloading personnel); and
- (2) Air passengers that carry any hazardous material on their person or in their carry-on or checked baggage.
- (c) This part does not apply to aircraft of United States registry under lease to and operated by foreign nationals outside the United States if:
- (1) Hazardous materials forbidden aboard aircraft by §172.101 of this subchapter are not carried on the aircraft;
- (2) Other hazardous materials are carried in accordance with the regulations of the State (nation) of the aircraft operator.

### § 175.3 Unacceptable hazardous materials shipments.

A hazardous material that is not prepared for shipment in accordance with this subchapter may not be offered or accepted for transportation or transported aboard an aircraft.

### §175.8 Exceptions for operator equipment and items of replacement.

(a) Operator equipment. This subchapter does not apply to—

- (1) Aviation fuel and oil in tanks that are in compliance with the installation provisions of 14 CFR, chapter 1.
- (2) Hazardous materials required aboard an aircraft in accordance with the applicable airworthiness requirements and operating regulations. Items of replacement for such materials must be transported in accordance with paragraph (a)(3) of this section.
- (3) Items of replacement (company material (COMAT)) for hazardous materials described in paragraph (a)(2) of this section must be transported in accordance with this subchapter. When an operator transports its own replacement items described in paragraph (a)(2), the following exceptions apply:
- (i) In place of required packagings, packagings specifically designed for the items of replacement may be used, provided such packagings provide at least an equivalent level of protection to those that would be required by this subchapter.
- (ii) Aircraft batteries are not subject to quantity limitations such as those provided in §172.101 or §175.75(c) of this subchapter.
- (b) Other operator exceptions. This subchapter does not apply to—
- (1) Oxygen, or any hazardous material used for the generation of oxygen, for medical use by a passenger, which is furnished by the aircraft operator in accordance with 14 CFR 121.574 or 135.91. For the purposes of this paragraph, an aircraft operator that does not hold a certificate under 14 CFR parts 121 or 135 may apply this exception in conformance with 14 CFR 121.574 or 135.91 in the same manner as required for a certificate holder. See §175.501 for additional requirements applicable to the stowage of oxygen.
- (2) Dry ice (carbon dioxide, solid) intended for use by the operator in food and beverage service aboard the aircraft.
- (3) Alcoholic beverages, perfumes, colognes, and liquefied gas lighters carried aboard a passenger-carrying aircraft by the operator for use or sale on the aircraft. Liquefied gas lighters must be examined by the Bureau of Explosives and approved by the Associate Administrator.
- (4) A tire assembly with a serviceable tire, provided the tire is not inflated to

a gauge pressure exceeding the maximum rated pressure for that tire, and the tire (including valve assemblies) is protected from damage during transport. A tire or tire assembly which is unserviceable or damaged is forbidden from air transport; however, a damaged tire is not subject to the requirements of this subchapter if it contains no material meeting the definition of a hazardous material (e.g., Division 2.2).

[71 FR 14604, Mar. 22, 2006, as amended at 72 FR 55693, Oct. 1, 2007]

### § 175.9 Exceptions for special aircraft operations.

This subchapter does not apply to the following materials used for special aircraft operations when applicable FAA operator requirements have been met, including training operator personnel on the proper handling and stowage of the hazardous materials carried:

- (a) Hazardous materials loaded and carried in hoppers or tanks of aircraft certificated for use in aerial seeding, dusting spraying, fertilizing, crop improvement, or pest control, to be dispensed during such an operation.
- (b) Parachute activation devices, lighting equipment, oxygen cylinders, flotation devices, smoke grenades, flares, or similar devices carried during a parachute operation.
- (c) Smoke grenades, flares, and pyrotechnic devices affixed to aircraft during any flight conducted as part of a scheduled air show or exhibition of aeronautical skill. The aircraft may not carry any persons other than required flight crewmembers. The affixed installation accommodating the smoke grenades, flares, or pyrotechnic devices on the aircraft must be approved for its intended use by the FAA Flight Standards District Office having responsibility for that aircraft.
- (d) Hazardous materials are carried and used during dedicated air ambulance, fire fighting, or search and rescue operations.
- (e) A transport incubator unit necessary to protect life or an organ preservation unit necessary to protect human organs, carried in the aircraft cabin, provided:
- (1) The compressed gas used to operate the unit is in an authorized DOT

specification cylinder and is marked, labeled, filled, and maintained as prescribed by this subchapter;

- (2) Each battery used is of the non-spillable type;
- (3) The unit is constructed so valves, fittings, and gauges are protected from damage:
- (4) The pilot-in-command is advised when the unit is on board, and when it is intended for use:
- (5) The unit is accompanied by a person qualified to operate it;
- (6) The unit is secured in the aircraft in a manner that does not restrict access to or use of any required emergency or regular exit or of the aisle in the passenger compartment; and,
- (7) Smoking within 3 m (10 feet) of the unit is prohibited.
- (f) Hazardous materials which are loaded and carried on or in cargo only aircraft, and which are to be dispensed or expended during flight for weather control, environmental restoration or protection, forest preservation and protection, fire fighting and prevention, flood control, or avalanche control purposes, when the following requirements are met:
- (1) Operations may not be conducted over densely populated areas, in a congested airway, or near any airport where carrier passenger operations are conducted.
- (2) Each operator shall prepare and keep current a manual containing operational guidelines and handling procedures, for the use and guidance of flight, maintenance, and ground personnel concerned in the dispensing or expending of hazardous materials. The manual must be approved by the FAA Principal Operations Inspector assigned to the operator.
- (3) No person other than a required flight crewmember, FAA inspector, or person necessary for handling or dispensing the hazardous material may be carried on the aircraft.
- (4) The operator of the aircraft must have advance permission from the owner of any airport to be used for the dispensing or expending operation.
- (5) When dynamite and blasting caps are carried for avalanche control flights, the explosives must be handled

by, and at all times be under the control of, a qualified blaster. When required by a State or local authority, the blaster must be licensed and the State or local authority must be identified in writing to the FAA Principal Operations Inspector assigned to the operator.

### § 175.10 Exceptions for passengers, crewmembers, and air operators.

- (a) This subchapter does not apply to the following hazardous materials when carried by aircraft passengers or crewmembers provided the requirements of §§171.15 and 171.16 (see paragraph (c) of this section) and the requirements of this section are met:
- (1) (i) Non-radioactive medicinal and toilet articles for personal use (including aerosols) carried in carry-on and checked baggage. Release devices on aerosols must be protected by a cap or other suitable means to prevent inadvertent release;
- (ii) Other aerosols in Div. 2.2 (nonflammable gas) with no subsidiary risk carried in checked baggage only. Release devices on aerosols must be protected by a cap or other suitable means to prevent inadvertent release; and
- (iii) The aggregate quantity of these hazardous materials carried by each person may not exceed 2 kg (70 ounces) by mass or 2 L (68 fluid ounces) by volume and the capacity of each container may not exceed 0.5 kg (18 ounces) by mass or 500 ml (17 fluid ounces) by volume.
- (2) One packet of safety matches or a lighter intended for use by an individual when carried on one's person or in carry-on baggage only. Lighter fuel, lighter refills, and lighters containing unabsorbed liquid fuel (other than liquefied gas) are not permitted on one's person or in carry-on or checked baggage.
- (3) Implanted medical devices in humans or animals that contain hazardous materials, such as a heart pacemaker containing Class 7 (radioactive) material or lithium batteries; and radiopharmaceuticals that have been injected or ingested.
  - (4) Alcoholic beverages containing:
- (i) Not more than 24% alcohol by volume; or

- (ii) More than 24% and not more than 70% alcohol by volume when in unopened retail packagings not exceeding 5 liters (1.3 gallons) carried in carry-on or checked baggage, with a total net quantity per person of 5 liters (1.3) gallons for such beverages.
- (5) Perfumes and colognes purchased through duty-free sales and carried on one's person or in carry-on baggage.
- (6) Hair curlers (curling irons) containing a hydrocarbon gas such as butane, no more than one per person, in carry-on or checked baggage. The safety cover must be securely fitted over the heating element. Gas refills for such curlers are not permitted in carry-on or checked baggage.
- (7) A small medical or clinical mercury thermometer for personal use, when carried in a protective case in carry-on or checked baggage.
- (8) Small arms ammunition for personal use carried by a crewmember or passenger in checked baggage only, if securely packed in boxes or other packagings specifically designed to carry small amounts of ammunition. Ammunition clips and magazines must also be securely boxed. This paragraph does not apply to persons traveling under the provisions of 49 CFR 1544.219.
- (9) One self-defense spray (see §171.8 of this subchapter), not exceeding 118 mL (4 fluid ounces) by volume, that incorporates a positive means to prevent accidental discharge may be carried in checked baggage only.
- (10) Dry ice (carbon dioxide, solid), with the approval of the operator:
- (i) Quantities may not exceed 2.5 kg (5.5 pounds) per person when used to pack perishables not subject to the HMR. The package must permit the release of carbon dioxide gas; and
- (ii) When carried in checked baggage, each package is marked "DRY ICE" or "CARBON DIOXIDE, SOLID," and marked with the net weight of dry ice or an indication the net weight is 2.5 kg (5.5 pounds) or less.
- (11) A self-inflating life jacket fitted with no more than two small gas cartridges (containing no hazardous material other than a Div. 2.2 gas) for inflation purposes plus no more than two spare cartridges. The lifejacket and spare cartridges may be carried in

carry-on or checked baggage, with the approval of the aircraft operator.

- (12) Small compressed gas cylinders of Division 2.2 (containing no hazardous material other than a Division 2.2 gas) worn by the passenger for the operation of mechanical limbs and, in carry-on and checked baggage, spare cylinders of a similar size for the same purpose in sufficient quantities to ensure an adequate supply for the duration of the journey.
- (13) A mercury barometer or thermometer carried as carry-on baggage, by a representative of a government weather bureau or similar official agency, provided that individual advises the operator of the presence of the barometer or thermometer in his baggage. The barometer or thermometer must be packaged in a strong packaging having a sealed inner liner or bag of strong, leak proof and puncture-resistant material impervious to mercury, which will prevent the escape of mercury from the package in any position.
- (14) Electrically powered heat-producing articles (e.g., battery-operated equipment such as diving lamps and soldering equipment) as carry-on baggage only and with the approval of the operator of the aircraft. The heat-producing component, or the energy source, must be removed to prevent unintentional functioning during transport.
- (15) A wheelchair or other battery-powered mobility aid equipped with a nonspillable battery, when carried as checked baggage, provided—
- (i) The battery meets the requirements of §173.159a(d) of this subchapter for non-spillable batteries:
- (ii) Visual inspection including removal of the battery, where necessary, reveals no obvious defects (removal of the battery from the housing should be performed by qualified airline personnel only);
- (iii) The battery is disconnected and the battery terminals are protected to prevent short circuits, unless the wheelchair or mobility aid design provides an effective means of preventing unintentional activation, and
  - (iv) The battery is-
- (A) Securely attached to the wheel-chair or mobility aid;

- (B) Is removed and placed in a strong, rigid packaging marked "NONSPILL-ABLE BATTERY" (unless fully enclosed in a rigid housing that is properly marked); or
- (C) Is handled in accordance with paragraph (a)(16)(iv) of this section.
- (16) A wheelchair or other batterypowered mobility aid equipped with a spillable battery, when carried as checked baggage, provided—
- (i) Visual inspection including removal of the battery, where necessary, reveals no obvious defects (however, removal of the battery from the housing should be performed by qualified airline personnel only);
- (ii) The battery is disconnected and terminals are insulated to prevent short circuits;
- (iii) The pilot-in-command is advised, either orally or in writing, prior to departure, as to the location of the battery aboard the aircraft; and
- (iv) The wheelchair or mobility aid is loaded, stowed, secured and unloaded in an upright position, or the battery is removed, and carried in a strong, rigid packaging under the following conditions:
- (A) The packaging must be leak-tight and impervious to battery fluid. An inner liner may be used to satisfy this requirement if there is absorbent material placed inside of the liner and the liner has a leakproof closure;
- (B) The battery must be protected against short circuits, secured upright in the packaging, and be packaged with enough compatible absorbent material to completely absorb liquid contents in the event of rupture of the battery; and
- (C) The packaging must be labeled with a CORROSIVE label, marked to indicate proper orientation, and marked with the words "Battery, wet, with wheelchair."
- (17) Except as provided in §173.21 of this subchapter, portable electronic devices (for example, watches, calculating machines, cameras, cellular phones, lap-top and notebook computers, camcorders, etc.) containing cells or batteries (including lithium cells or batteries) and spare batteries and cells for these devices, when carried by passengers or crew members for personal use. Each spare battery must

be individually protected so as to prevent short circuits (by placement in original retail packaging or by otherwise insulating terminals, *e.g.*, by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch) and carried in carry-on baggage only. In addition, each installed or spare battery must not exceed the following:

(i) For a lithium metal battery, a lithium content of not more than 2

grams per battery; or

(ii) For a lithium-ion battery, an aggregate equivalent lithium content of not more than 8 grams per battery, except that up to two batteries with an aggregate equivalent lithium content of more than 8 grams but not more than 25 grams may be carried.

(18) Portable electronic devices (for example, cameras, cellular phones, laptop computers, and camcorders) powered by fuel cell systems, and not more than two spare fuel cell cartridges per passenger or crew member, when transported in carry-on baggage for personal use under the following conditions:

- (i) Fuel cell cartridges may contain only Division 2.1 liquefied flammable gas, or hydrogen in a metal hydride, Class 3 flammable liquids (including methanol), Division 4.3 water reactive substances, or Class 8 corrosive materials;
- (ii) The maximum water capacity of a fuel cell cartridge for hydrogen in a metal hydride may not exceed 120 mL (4 fluid ounces). The maximum quantity of fuel in all other fuel cell cartridge types may not exceed:
  - (A) 200 mL (6.76 ounces) for liquids;
- (B) 120 mL (4 fluid ounces) for liquefied gases in non-metallic fuel cell cartridges, or 200 mL (6.76 ounces) for liquefied gases in metal fuel cell cartridges; or
  - (C) 200 g (7 ounces) for solids.
- (iii) No more than two spare fuel cell cartridges may be carried by a passenger;
- (iv) Fuel cell systems containing fuel and fuel cell cartridges including spare cartridges are permitted in carry-on baggage only;
- (v) Fuel cell cartridges containing hydrogen in a metal hydride must meet the requirements in §173.230(d);

(vi) Fuel cell cartridges may not be refillable by the user. Refueling of fuel cell systems is not permitted except that the installation of a spare cartridge is allowed. Fuel cell cartridges that are used to refill fuel cell systems but that are not designed or intended to remain installed (fuel cell refills) in a portable electronic device are not permitted;

(vii) Fuel cell systems and fuel cell cartridges must conform to IEC/PAS 62282-6-1 (IBR; see §171.7 of this sub-

chapter);

(viii) Interaction between fuel cells and integrated batteries in a device must conform to IEC/PAS 62282-6-1 (IBR, see §171.7 of this subchapter). Fuel cell systems for which the sole function is to charge a battery in the device are not permitted;

(ix) Fuel cell systems must be of a type that will not charge batteries when the consumer electronic device is

not in use; and

- (x) Each fuel cell cartridge and system that conforms to the requirements in this paragraph (a)(18) must be durably marked by the manufacturer with the wording: "APPROVED FOR CARRIAGE IN AIRCRAFT CABIN ONLY" to certify that the fuel cell cartridge or system meets the specifications in IEC/PAS 62282-6-1 (IBR, see §171.7 of this subchapter) and with the maximum quantity and type of fuel contained in the cartridge or system.
- (b) The exceptions provided in paragraph (a) of this section also apply to aircraft operators when transporting passenger or crewmember baggage that has been separated from the passenger or crewmember, including transfer to another carrier for transport to its final destination.
- (c) The requirements to submit incident reports as required under §§ 171.15 and 171.16 of this subchapter apply to the air carrier.

[71 FR 14604, Mar. 22, 2006, as amended at 71 FR 78634, Dec. 29, 2006; 72 FR 44950, Aug. 9, 2007; 73 FR 4719, Jan. 28, 2008; 73 FR 23367, Apr. 30, 3008; 74 FR 2266, Jan. 14, 2009; 75 FR 73. Jan. 4, 2010]

#### §175.20 Compliance and training.

An air carrier may not transport a hazardous material by aircraft unless each of its hazmat employees involved

in that transportation is trained as required by subpart H of part 172 of this subchapter. In addition, air carriers must comply with all applicable hazardous materials training requirements in 14 CFR Part 121 and 135.

# § 175.25 Notification at air passenger facilities of hazardous materials restrictions.

Each person who engages in for-hire air transportation of passengers shall display notices of the requirements applicable to the carriage of hazardous materials aboard aircraft, and the penalties for failure to comply with those requirements. Each notice must be legible, and be prominently displayed so it can be seen by passengers in locations where the aircraft operator issues tickets, checks baggage, and maintains aircraft boarding areas.

- (a) At a minimum, each notice must communicate the following information:
- (1) Federal law forbids the carriage of hazardous materials aboard aircraft in your luggage or on your person. A violation can result in five years' imprisonment and penalties of \$250,000 or more (49 U.S.C. 5124). Hazardous materials include explosives, compressed gases, flammable liquids and solids, oxidizers, poisons, corrosives and radio-active materials. Examples: Paints, lighter fluid, fireworks, tear gases, oxygen bottles, and radio-pharmaceuticals.
- (2) There are special exceptions for small quantities (up to 70 ounces total) of medicinal and toilet articles carried in your luggage and certain smoking materials carried on your person. For further information contact your airline representative.
- (b) The information contained in paragraph (a) of this section must be printed:
- (1) In legible English and may, in addition to English, be displayed in other languages;
- (2) In lettering of at least 1 cm (0.4) inch) in height for the first sentence and 4.0 mm (0.16) inch) in height for the other sentences; and
- (3) On a background of contrasting color.
- (c) Size and color of the notice is optional. Additional information, exam-

ples, or illustrations, if not inconsistent with the required information, may be included.

# § 175.26 Notification at cargo facilities of hazardous materials requirements.

- (a) Each person who engages in the acceptance or transport of cargo for transportation by aircraft shall display notices to persons offering such cargo of the requirements applicable to the carriage of hazardous materials aboard aircraft, and the penalties for failure to comply with those requirements, at each facility where cargo is accepted. Each notice must be legible, and be prominently displayed so it can be seen. At a minimum, each notice must communicate the following information:
- (1) Cargo containing hazardous materials (dangerous goods) for transportation by aircraft must be offered in accordance with the Federal Hazardous Materials Regulations (49 CFR parts 171 through 180).
- (2) A violation can result in five years' imprisonment and penalties of \$250,000 or more (49 U.S.C. 5124).
- (3) Hazardous materials (dangerous goods) include explosives, compressed gases, flammable liquids and solids, oxidizers, poisons, corrosives and radioactive materials.
- (b) The information contained in paragraph (a) of this section must be printed:
- (1) Legibly in English, and, where cargo is accepted outside of the United States, in the language of the host country; and
- (2) On a background of contrasting color.
- (c) Size and color of the notice are optional. Additional information, examples, or illustrations, if not inconsistent with required information, may be included.
- (d) *Exceptions*. Display of a notice required by paragraph (a) of this section is not required at:
- (1) An unattended location (e.g., a drop box) provided a general notice advising customers of a prohibition on shipments of hazardous materials through that location is prominently displayed; or

(2) A customer's facility where hazardous materials packages are accepted by a carrier.

#### § 175.30 Inspecting shipments.

- (a) No person may accept a hazardous material for transportation aboard an aircraft unless the aircraft operator ensures the hazardous material is:
- (1) Authorized, and is within the quantity limitations specified for carriage aboard aircraft according to §172.101 of this subchapter or as otherwise specifically provided by this subchapter.
- (2) Described and certified on a shipping paper prepared in duplicate in accordance with part 172 of this subchapter or as authorized by subpart C of part 171 of this subchapter. See §175.33 for shipping paper retention requirements:
- (3) Marked and labeled in accordance with subparts D and E of part 172 or as authorized by subpart C of part 171 of this subchapter, and placarded (when required) in accordance with subpart F of part 172 of this subchapter; and
- (4) Labeled with a "CARGO AIR-CRAFT ONLY" label (see §172.448 of this subchapter) if the material as presented is not permitted aboard passenger-carrying aircraft.
- (b) Except as provided in paragraph (d) of this section, no person may carry a hazardous material in a package, outside container, or overpack aboard an aircraft unless the package, outside container, or overpack is inspected by the operator of the aircraft immediately before placing it:
  - (1) Aboard the aircraft; or
- (2) In a unit load device or on a pallet prior to loading aboard the aircraft.
- (c) A hazardous material may be carried aboard an aircraft only if, based on the inspection by the operator, the package, outside container, or overpack containing the hazardous material:
- (1) Has no holes, leakage or other indication that its integrity has been compromised; and
- (2) For Class 7 (radioactive) materials, does not have a broken seal, except packages contained in overpacks need not be inspected for seal integrity.

- (d) The requirements of paragraphs (b) and (c) of this section do not apply to Dry ice (carbon dioxide, solid).
- (e) An overpack containing packages of hazardous materials may be accepted only if the operator has taken all reasonable steps to establish that:
- (1) The overpack does not contain a package bearing the "CARGO AIR-CRAFT ONLY" label unless—
- (i) The overpack affords clear visibility of and easy access to the package;
- (ii) The package contains a material which may be carried inaccessibly under the provisions of §175.75(e); or
- (iii) Not more than one package is overpacked.
- (2) The proper shipping names, identification numbers, labels and special handling instructions appearing on the inside packages are clearly visible or reproduced on the outside of the overpack, and
- (3) Has determined that word "OVERPACK", or until October 1, 2007 a statement to the effect that the inside packages comply with the prescribed specifications, appears on the outside of the overpack, when specification packagings are prescribed.

[71 FR 14604, Mar. 22, 2006, as amended at 72 FR 25177, May 3, 2007; 73 FR 57006, Oct. 1, 2008]

#### §175.31 Reports of discrepancies.

- (a) Each person who discovers a discrepancy, as defined in paragraph (b) of this section, relative to the shipment of a hazardous material following its acceptance for transportation aboard an aircraft shall, as soon as practicable, notify the nearest FAA Regional or Field Security Office by telephone or electronically, and shall provide the following information:
- (1) Name and telephone number of the person reporting the discrepancy.
  - (2) Name of the aircraft operator.
- (3) Specific location of the shipment concerned.
  - (4) Name of the shipper.
  - (5) Nature of discrepancy.
- (6) Address of the shipper or person responsible for the discrepancy, if known, by the air carrier.

(b) Discrepancies which must be reported under paragraph (a) of this section are those involving hazardous materials which are improperly described, certified, labeled, marked, or packaged, in a manner not ascertainable when accepted under the provisions of §175.30(a) of this subchapter including packages or baggage which are found to contain hazardous materials subsequent to their being offered and accepted as other than hazardous materials.

### §175.33 Shipping paper and notification of pilot-in-command.

- (a) When a hazardous material subject to the provisions of this subchapter is carried in an aircraft, a copy of the shipping paper required by §175.30(a)(2) must accompany the shipment it covers during transportation aboard the aircraft, and the operator of the aircraft must provide the pilot-incommand with accurate and legible written information as early as practicable before departure of the aircraft, which specifies at least the following:
- (1) The proper shipping name, hazard class and identification number of the material, including any remaining aboard from prior stops, as specified in §172.101 of this subchapter or the ICAO Technical Instructions. In the case of Class 1 materials, the compatibility group letter also must be shown. If a hazardous material is described by the proper shipping name, hazard class, and identification number appearing in:
- (i) Section 172.101 of this subchapter. Except for the requirement to indicate the type of package, any additional description requirements provided in §§172.202, and 172.203 of this subchapter must also be shown on the notification.
- (ii) The ICAO Technical Instructions (IBR, see §171.7 of this subchapter), any additional information required to be shown on shipping papers by subpart C of part 171 of this subchapter must also be shown in the notification.
  - (2) The total number of packages;
- (3) The net quantity or gross weight, as applicable, for each package except those containing Class 7 (radioactive) materials. For a shipment consisting of multiple packages containing hazardous materials bearing the same proper shipping name and identifica-

tion number, only the total quantity and an indication of the quantity of the largest and smallest package at each loading location need to be provided:

- (4) The location of the packages aboard the aircraft;
- (5) Confirmation that no damaged or leaking packages have been loaded on the aircraft:
- (6) For Class 7 (radioactive) materials, the number of packages, overpacks or freight containers, their category, transport index (if applicable), and their location aboard the aircraft;
  - (7) The date of the flight;
- (8) The telephone number of a person not aboard the aircraft from whom the information contained in the notification of pilot-in-command can be obtained. The aircraft operator must ensure the telephone number is monitored at all times the aircraft is in flight. The telephone number is not required to be placed on the notification of pilot-in-command if the phone number is in a location in the cockpit available and known to the flight crew.
- (9) Confirmation that the package must be carried only on cargo aircraft if its transportation aboard passengercarrying aircraft is forbidden; and
- (10) An indication, when applicable, that a hazardous material is being carried under terms of a special permit.
- (11) For UN1845, Carbon dioxide, solid (dry ice), only the UN number, proper shipping name, hazard class, total quantity in each hold aboard the aircraft, and the airport at which the package(s) is to be unloaded must be provided.
- (b) A copy of the written notification to pilot-in-command shall be readily available to the pilot-in-command during flight. Emergency response information required by subpart G of part 172 of this subchapter must be maintained in the same manner as the written notification to pilot-in-command during transport of the hazardous material aboard the aircraft.
  - (c) The aircraft operator must-
- (1) Retain a copy of the shipping paper required by §175.30(a)(2) or an electronic image thereof, that is accessible at or through its principal place of business and must make the shipping paper available, upon request, to

an authorized official of a federal, state, or local government agency at reasonable times and locations. For a hazardous waste, each shipping paper copy must be retained for three years after the material is accepted by the initial carrier. For all other hazardous materials, each shipping paper copy must be retained by the operator for one year after the material is accepted by the initial carrier. Each shipping paper copy must include the date of acceptance by the carrier. The date on the shipping paper may be the date a shipper notifies the air carrier that a shipment is ready for transportation, as indicated on the air bill or bill of lading, as an alternative to the date the shipment is picked up or accepted by the carrier. Only an initial carrier must receive and retain a copy of the shipper's certification, as required by §172.204 of this subchapter.

- (2) Retain a copy of each notification of pilot-in-command, an electronic image thereof, or the information contained therein for 90 days at the airport of departure or the operator's principal place of business.
- (3) Have the information required to be retained under this paragraph readily accessible at the airport of departure and the intended airport of arrival for the duration of the flight leg.
- (4) Make available, upon request, to an authorized official of a Federal, State, or local government agency (including an emergency responder(s)) at reasonable times and locations, the documents or information required to be retained by this paragraph. In the event of a reportable incident, as defined in §171.15 of this subchapter, make immediately available to an authorized official of a Federal, State, or local government agency (including an emergency responders), the documents or information required to be retained by this paragraph.
- (d) The documents required by paragraphs (a) and (b) this section may be combined into one document if it is given to the pilot-in-command before departure of the aircraft.

[71 FR 14604, Mar. 22, 2006, as amended at 72 FR 25177, May 3, 2007; 73 FR 57006, Oct. 1, 2008; 74 FR 2267, Jan. 14, 2009]

## Subpart B—Loading, Unloading and Handling

### § 175.75 Quantity limitations and cargo location.

(a) No person may carry on an aircraft a hazardous material except as permitted by this subchapter.

- (b) Except as otherwise provided in this subchapter, no person may carry a hazardous material in the cabin of a passenger-carrying aircraft or on the flight deck of any aircraft, and the hazardous material must be located in a place that is inaccessible to persons other than crew-members. Hazardous materials may be carried in a main deck cargo compartment of a passenger aircraft provided that the compartment is inaccessible to passengers and that it meets all certification requirements for a Class B aircraft cargo compartment in 14 CFR 25.857(b) or for a Class C aircraft cargo compartment in 14 CFR 25.857(c). A package bearing a KEEP AWAY FROM HEAT handling marking must be protected from direct sunshine and stored in a cool and ventilated place, away from sources of heat.
- (c) For each package containing a hazardous material acceptable for carriage aboard passenger-carrying aircraft, no more than 25 kg (55 pounds) net weight of hazardous material may be loaded in an inaccessible manner. Loaded in an inaccessible manner means cargo that is loaded in such a manner that a crew member or other authorized person cannot handle, and when size and weight permit, separate such packages from other cargo during flight. This includes materials loaded in a freight container in an accessible cargo compartment. In addition to the 25 kg limitation above, an additional 75 kg (165 pounds) net weight of Division 2.2 (non-flammable compressed gas) may be loaded in an inaccessible manner. These requirements do not apply to Class 9 and ORM-D materials.

(d) Each package displaying a "Cargo Aircraft Only" label must be loaded on cargo aircraft as follows:

(1) In a manner that a crew member or other authorized person can access, handle and when size and weight permit, separate such packages from other cargo during flight;

- (2) In a cargo compartment certified by FAA as a Class C aircraft cargo compartment as defined in 14 CFR 25.857(c); or
- (3) In an FAA-certified freight container that has an approved fire or smoke detection system and fire suppression system equivalent to that required by the certification requirements for a Class C aircraft cargo compartment.
- (e) For cargo aircraft only, the requirements of paragraph (c) and (d) do not apply to the following hazardous materials:
- (1) Class 3—Packing Group III (that do not meet the definition of another hazard class), Division 6.1 (except those also labeled FLAMMABLE), Division 6.2, Class 7, Class 9 or ORM-D.
- (2) Division 2.2 in that an additional 75 kg (165 pounds) net weight of Division 2.2 material is authorized in inaccessible locations.
- (3) Packages of hazardous materials transported aboard a cargo aircraft, when other means of transportation are impracticable or not available, in accordance with procedures approved in writing by the FAA Regional or Field Security Office in the region where the operator is located.
- (4) Packages of hazardous materials carried on small, single pilot, cargo aircraft if:

- (i) No person is carried on the aircraft other than the pilot, an FAA inspector, the shipper or consignee of the material, a representative of the shipper or consignee so designated in writing, or a person necessary for handling the material;
- (ii) The pilot is provided with written instructions on the characteristics and proper handling of the materials; and
- (iii) Whenever a change of pilots occurs while the material is on board, the new pilot is briefed under a hand-to-hand signature service provided by the operator of the aircraft.
- (f) At a minimum, quantity limits and loading instructions in the following quantity and loading tables must be followed to maintain acceptable quantity and loading between packages containing hazardous materials. These requirements do not apply to Class 9 or ORM-D materials. For cargo aircraft only packages containing hazardous materials, packages loaded in conformance with paragraph (d) of this section are considered accessible for the purposes of the Cargo Only Aircraft table. The quantity and loading tables are as follows:

Section 175.75 Quantity and Loading Tables

### PASSENGER AIRCRAFT Packages Authorized for Transport Onboard a Passenger Aircraft

	In an accessible ca	argo compartment		
If packages are accessible	If packages a	If packages are inaccessible		
No limit	25 kg per compartment plus an additional 75 kg of Division 2.2 material. (see Note 1).			
	In an inaccessible	cargo compartment		
If packages are not in a freight of	container	If packa	ages are in a freight container	
25 kg per compartment plus an additional 75 kg of Division 2.2 material. (see Note 1).		25 kg per compartment plus an additional 75 kg of Division material. (see Note 1).		

#### CARGO ONLY AIRCRAFT

Packages Authorized for Transport Onboard a Passenger Aircraft

	In an accessible cargo compartment	
If packages are accessible	If packages are inaccessible	If packages are in a freight container
No limit	25 kg per compartment plus an additional 75 kg of Division 2.2 material. (see Note 1).	25 kg per container plus an additional 75 kg of Division 2.2 material. (see Note 1).
	In an inaccessible cargo compartment	

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If packages are not in a freight container		If packages are in a freight of	container	
25 kg per compartment plus an additional 75 kg of Division 2.2 material. (see Note 1).		25 kg per compartment plus an additional 75 kg of Division 2.2 material. (see Note 1).		
Packages Only Authorized for Transport Aboard a C		ransport Aboard a Cargo Aircraft		
	In an accessible co	argo compartment		
If packages are accessible	If packages are inaccessible	If packages are in a freight container and are accessible lf package freight cand are sit		
No limit	Forbidden. (see Note 1)	No Limit		
	In an inaccessible of	cargo compartment		
If packages are not in a freight container		If packages are in a freight container		
Forbidden. (see Note 1)				

- Note 1: The following materials are not subject to this restriction:
  a. Class 3, PG III (unless the hazardous material meets the definition of another hazard class).
  b. Class 6 (unless also labeled as a flammable liquid).
  c. Class 7 (unless the hazardous material meets the definition of another hazard class).

[71 FR 14604, Mar. 22, 2006, as amended at 72 FR 55693, Oct. 1, 2007; 74 FR 2267, Jan. 14,

EDITORIAL NOTE: The following amendment could not be incorporated into §175.75 because of the inaccurate amendatory instruction. For the convenience of the user the amendatory instruction and text is set forth as follows:

At 71 FR 54395, Sept. 14, 2006, §175.75 was amended in part by revising paragraph (e)(5).

#### § 175.75 Quantity limitations and cargo location.

(e) \* \* \*

(5) At a minimum, quantity limits and loading instructions in the following quantity and loading tables must be followed to maintain acceptable quantity and loading distances between packages containing haz-

ardous materials. These requirements do not apply to Class 9 or ORM-D materials. The quantity and loading tables are as follows:

Section 175.75 Quantity and Loading Tables

#### CARGO ONLY AIRCRAFT

[Packages authorized for transport onboard a passenger

In an ac	In an accessible cargo compartment					
If packages are accessible	If packages are in- accessible	If packages are in a Freight Con- tainer				
No limit	25 kg per compart- ment plus an additional 75 kg of Division 2.2 material (see Note 1).	25 kg per container plus an additional 75 kg of Division 2.2 material (see Note 1).				

In an inaccessible cargo compartment			
If packages are not in a freight container	If packages are in a freight container		
25 kg per compartment plus an additional	25 kg per compartment plus an additional 75 kg of Division 2.2 material (see Note 1).		
75 kg of Division 2.2 material	25 kg per compartment plus an additional 75 kg of Division 2.2 material (see Note 1).		

#### PACKAGES ONLY AUTHORIZED FOR TRANSPORT ABOARD A CARGO AIRCRAFT

In an accessible cargo compartment				
If packages are accessible	If packages are inaccessible	If packages are in a freight container and are accessible	If packages are in a freight container and are inaccessible	
No limit	Forbidden (see Note 1)	No Limit	Forbidden (see Note 1).	

In an inaccessible cargo compartment		
If packages are not in a freight container		
Forbidden (see Note 1)		

NOTE 1: Except the following materials are

- not subject to this restriction:
  a. Class 3, PG III (unless the hazardous material meets the definition of another hazard class)
- b. Class 6 (unless also labeled as a flammable liquid)
- c. Class 7 (unless the hazardous material meets the definition of another hazard class)

### § 175.78 Stowage compatibility o cargo.

(a) For stowage on an aircraft, in a cargo facility, or in any other area at an airport designated for the stowage of hazardous materials, packages containing hazardous materials which

might react dangerously with one another may not be placed next to each other or in a position that would allow a dangerous interaction in the event of leakage.

(b) At a minimum, the segregation instructions prescribed in the following Segregation Table must be followed to maintain acceptable segregation between packages containing hazardous materials with different hazards. The Segregation Table instructions apply whether or not the class or division is the primary or subsidiary risk. The Segregation Table follows:

#### SEGREGATION TABLE

				Class or	division			
Hazard label	1	2	3	4.2	4.3	5.1	5.2	8
1	Note 1	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
3	Note 2 Note 2					X		
4.2	Note 2 Note 2					X		v
5.1	Note 2		Х	X				
5.2	Note 2 Note 2				Χ			

- (c) Instructions for using the Segregation Table are as follows:
- (1) Hazard labels, classes or divisions not shown in the table are not subject to segregation requirements.
- (2) Dots at the intersection of a row and column indicate that no restrictions apply.
- (3) The letter "X" at the intersection of a row and column indicates that packages containing these classes of hazardous materials may not be stowed next to or in contact with each other, or in a position which would allow interaction in the event of leakage of the contents.
- (4) Note 1. "Note 1" at the intersection of a row and column means the following:
- (i) Only Division 1.4, Compatibility Group S, explosives are permitted to be transported aboard a passenger aircraft. Only certain Division 1.3, Com-

- patibility Groups C and G, and Division 1.4, Compatibility Groups B, C, D, E, G and S, explosives may be transported aboard a cargo aircraft.
- (ii) Division 1.4 explosives in Compatibility Group S may be stowed with Division 1.3 and 1.4 explosives in compatibility groups as permitted aboard aircraft under paragraph (c)(4)(i) above.
- (iii) Except as otherwise provided in this Note, explosives of different compatibility groups may be stowed together whether or not they belong to the same division.
- (iv) Division 1.4B and Division 1.3 explosives may not be stowed together. Division 1.4B explosives must be loaded into separate unit load devices and, when stowed aboard the aircraft, the unit load devices must be separated by other cargo with a minimum separation of 2 m (6.5 feet). When not loaded in unit load devices, Division 1.4B and

Division 1.3 explosives must be loaded into different, non-adjacent loading positions and separated by other cargo with a minimum separation of 2 m (6.5 feet).

- (5) Note 2. "Note 2" at the intersection of a row and column means that other than explosives of Division 1.4, Compatibility Group S, explosives may not be stowed together with that class.
- (6) Packages containing hazardous materials with multiple hazards in the class or divisions, which require segregation in accordance with the Segregation Table, need not be segregated from other packages bearing the same UN number.
- (7) A package labeled "BLASTING AGENT" may not be stowed next to or in a position that will allow contact with a package of special fireworks or railway torpedoes.

[71 FR 14604, Mar. 22, 2006, as amended at 71 FR 54396, Sept. 14, 2006; 71 FR 78634, Dec. 29, 2006]

#### § 175.88 Inspection, orientation and securing packages of hazardous materials.

- (a) A unit load device may not be loaded on an aircraft unless the device has been inspected and found to be free from any evidence of leakage from, or damage to, any package containing hazardous materials.
- (b) A package containing hazardous materials marked "THIS SIDE UP" or "THIS END UP", or with arrows to indicate the proper orientation of the package, must be stored and loaded aboard an aircraft in accordance with such markings. A package without orientation markings containing liquid hazardous materials must be stored and loaded with top closure facing upward.
- (c) Packages containing hazardous materials must be secured in an aircraft in a manner that will prevent any shifting or any change in the orientation of the packages. Packages containing Class 7 (radioactive) materials must be secured in a manner that ensures that the separation requirements of §§175.701 and 175.702 will be maintained at all times during flight.

[71 FR 14604, Mar. 22, 2006, as amended at 74 FR 2268, Jan. 14, 2009]

#### §175.90 Damaged shipments.

- (a) Packages or overpacks containing hazardous materials must be inspected for damage or leakage after being unloaded from an aircraft. When packages or overpacks containing hazardous materials have been transported in a unit load device, the area where the unit load device was stowed must be inspected for evidence of leakage or contamination immediately upon removal of the unit load device from the aircraft, and the packages or overpacks must be inspected for evidence of damage or leakage when the unit load device is unloaded. In the event of leakage or suspected leakage, the compartment in which the package, overpack, or unit load device was carried must be inspected for contamination and decontaminated, if applicable.
- (b) Except as provided in §175.700, the operator of an aircraft must remove from the aircraft any package, baggage or cargo that appears to be leaking or contaminated by a hazardous material. In the case of a package, baggage or cargo that appears to be leaking, the operator must ensure that other packages, baggage or cargo in the same shipment are in proper condition for transport aboard the aircraft and that no other package, baggage or cargo has been contaminated or is leaking. If an operator becomes aware that a package, baggage or cargo not identified as containing a hazardous material has been contaminated, or the operator has cause to believe that a hazardous material may be the cause of the contamination, the operator must take reasonable steps to identify the nature and source of contamination before proceeding with the loading of the contaminated baggage or cargo. If the contaminating substance is found or suspected to be hazardous material, the operator must isolate the package, baggage or cargo and take appropriate steps to eliminate any identified hazard before continuing the transportation of the item by aircraft.
- (c) No person may place aboard an aircraft a package, baggage or cargo that is contaminated with a hazardous material or appears to be leaking.

- (d) If a package containing a material in Division 6.2 (infectious substance) is found to be damaged or leaking, the person finding the package must:
- Avoid handling the package or keep handling to a minimum;
- (2) Inspect packages adjacent to the leaking package for contamination and withhold from further transportation any contaminated packages until it is ascertained that they can be safely transported;
- (3) Comply with the reporting requirement of §§ 171.15 and 175.31 of this subchapter; and
  - (4) Notify the consignor or consignee.

#### Subpart C—Specific Regulations Applicable According to Classification of Material

# § 175.310 Transportation of flammable liquid fuel; aircraft only means of transportation.

(a) When other means of transportation are impracticable, flammable liquid fuels may be carried on certain passenger and cargo aircraft as provided in this section, without regard to the packaging references and quantity limits listed in Columns 7, 8 and 9 of the §172.101 Hazardous Materials Table. All requirements of this subchapter that are not specifically covered in this section continue to apply to shipments made under the provisions of this section. For purposes of this section "impracticable" means transportation is not physically possible or cannot be performed by routine and frequent means of other transportation, due to extenuating circumstances. Extenuating circumstances include: conditions precluding highway or water transportation, such as a frozen vessel route; road closures due to catastrophic weather or volcanic activity; or a declared state of emergency. The desire for expedience of a shipper, carrier, or consignor, is not relevant in determining whether other means of transportation are impracticable. The stowage requirements of §175.75(a) do not apply to a person operating an aircraft under the provisions of this section which, because of its size and configuration, makes it impossible to comply.

- (b) A small passenger-carrying aircraft operated entirely within the State of Alaska or into a remote area, in other than scheduled passenger operations, may carry up to 76 L (20 gallons) of flammable liquid fuel (in Packing Group II or Packing Group III), when:
- (1) The flight is necessary to meet the needs of a passenger; and
- (2) The fuel is carried in one of the following types of containers:
- (i) Strong tight metal containers of not more than 20 L (5.3 gallons) capacity, each packed inside a UN 4G fiberboard box, at the Packing Group II performance level, or each packed inside a UN 4C1 wooden box, at the Packing Group II performance level:
- (ii) Airtight, leakproof, inside containers of not more than 40 L (11 gallons) capacity and of at least 28-gauge metal, each packed inside a UN 4C1 wooden box, at the Packing Group II performance level;
- (iii) UN 1A1 steel drums, at the Packing Group I or II performance level, of not more than 20 L (5.3 gallons) capacity; or
- (iv) In fuel tanks attached to flammable liquid fuel powered equipment under the following conditions:
- (A) Each piece of equipment is secured in an upright position;
- (B) Each fuel tank is filled in a manner that will preclude spillage of fuel during loading, unloading, and transportation; and
- (C) Fueling and refueling of the equipment is prohibited in or on the aircraft.
- (3) In the case of a passenger-carrying helicopter, the fuel or fueled equipment must be carried on external cargo racks or slings.
- (c) Flammable liquid fuels may be carried on a cargo aircraft, subject to the following conditions:
- (1)(i) The flammable liquid fuel is in Packing Group II or Packing Group III except as indicated in paragraph (c)(1)(iv) of this section;
- (ii) The fuel is carried in packagings authorized in paragraph (b) of this section:
- (iii) The fuel is carried in metal drums (UN 1A1, 1B1, 1N1) authorized for Packing Group I or Packing Group II liquid hazardous materials and having

rated capacities of 220 L (58 gallons) or less. These single packagings may not be transported in the same aircraft with Class 1, Class 5, or Class 8 materials.

- (iv) Combustible and flammable liquid fuels (including those in Packing Group I) may be carried in installed aircraft tanks each having a capacity of more than 450 L (118.9 gallons), subject to the following additional conditions:
- (A) The tanks and their associated piping and equipment and the installation thereof must have been approved for the material to be transported by the appropriate FAA Flight Standards District Office.
- (B) In the case of an aircraft being operated by a certificate holder, the operator shall list the aircraft and the approval information in its operating specifications. If the aircraft is being operated by other than a certificate holder, a copy of the FAA Flight Standards District Office approval required by this section must be carried on the aircraft.
- (C) The crew of the aircraft must be thoroughly briefed on the operation of the particular bulk tank system being used.
- (D) During loading and unloading and thereafter until any remaining fumes within the aircraft are dissipated:
- (1) Only those electrically operated bulk tank shutoff valves that have been approved under a supplemental type certificate may be electrically operated.
- (2) No engine or electrical equipment, avionic equipment, or auxiliary power units may be operated, except position lights in the steady position and equipment required by approved loading or unloading procedures, as set forth in the operator's operations manual, or for operators that are not certificate holders, as set forth in a written statement.
- (3) Static ground wires must be connected between the storage tank or fueler and the aircraft, and between the aircraft and a positive ground device.
  - (2) [Reserved]
- (d) The following restrictions apply to loading, handling, or carrying fuel under the provisions of this section:

- (1) During loading and unloading, no person may smoke, carry a lighted cigarette, cigar, or pipe, or operate any device capable of causing an open flame or spark within 15 m (50 feet) of the aircraft.
- (2) No person may fill a container, other than an approved bulk tank, with a Class 3 material or combustible liquid or discharge a Class 3 material or combustible liquid from a container, other than an approved bulk tank, while that container is inside or within 15 m (50 feet) of the aircraft.
- (3) When filling an approved bulk tank by hose from inside the aircraft, the doors and hatches of the aircraft must be fully open to insure proper ventilation.
- (4) Each area or compartment in which the fuel is loaded is suitably ventilated to prevent the accumulation of fuel vapors.
- (5) Fuel is transferred to the aircraft fuel tanks only while the aircraft is on the ground.
- (6) Before each flight, the pilot-incommand:
- (i) Prohibits smoking, lighting matches, the carrying of any lighted cigar, pipe, cigarette or flame, and the use of anything that might cause an open flame or spark, while in flight; and
- (ii) For passenger aircraft, informs each passenger of the location of the fuel and the hazards involved.
- (e) Operators must comply with the following:
- (1) If the aircraft is being operated by a holder of a certificate issued under 14 CFR part 121 or part 135, operations must be conducted in accordance with conditions and limitations specified in the certificate holder's operations specifications or operations manual accepted by the FAA. If the aircraft is being operated under 14 CFR part 91, operations must be conducted in accordance with an operations plan accepted and acknowledged in writing by the FAA Principal Operations Inspector assigned to the operator.
- (2) The aircraft and the loading arrangement to be used must be approved for the safe carriage of the particular materials concerned by the FAA Principal Operations Inspector assigned to the operator.

### § 175.501 Special requirements for oxidizers and compressed oxygen.

(a) Compressed oxygen, when properly labeled Oxidizer or Oxygen, may be loaded and transported as provided in this section. Except for Oxygen, compressed, no person may load or transport a hazardous material for which an OXIDIZER label is required under this subchapter in an inaccessible cargo compartment that does not have a fire or smoke detection system and a fire suppression system.

(b) In addition to the quantity limitations prescribed in §175.75, no more than a combined total of six cylinders of compressed oxygen may be stowed on an aircraft in the inaccessible aircraft cargo compartment(s) that do not have fire or smoke detection systems

and fire suppression systems.

(c) When loaded into a passenger-carrying aircraft or in an inaccessible cargo location on a cargo-only aircraft, cylinders of compressed oxygen must be stowed horizontally on the floor or as close as practicable to the floor of the cargo compartment or unit load device. This provision does not apply to cylinders stowed in the cabin of the aircraft in accordance with paragraph (e) of this section.

- (d) When transported in a Class B aircraft cargo compartment (see 14 CFR 25.857(b)) or its equivalent (i.e., an accessible cargo compartment equipped with a fire or smoke detection system, but not a fire suppression system), cylinders of compressed oxygen must be loaded in a manner that a crew member can see, handle and, when size and weight permit, separate the cylinders from other cargo during flight. No more than six cylinders of compressed oxygen and, in addition, one cylinder of medical-use compressed oxygen per passenger needing oxygen at destination-with a rated capacity of 1000 L (34 cubic feet) or less of oxygen-may be carried in a Class B aircraft cargo compartment or its equivalent.
- (e) A cylinder containing medical-use compressed oxygen, owned or leased by an aircraft operator or offered for transportation by a passenger needing it for personal medical use at destination, may be carried in the cabin of a passenger-carrying aircraft in accordance with the following provisions:

- (1) No more than six cylinders belonging to the aircraft operator and, in addition, no more than one cylinder per passenger needing the oxygen at destination, may be transported in the cabin of the aircraft under the provisions of this paragraph (e);
- (2) The rated capacity of each cylinder may not exceed 1,000 L (34 cubic feet);
- (3) Each cylinder must conform to the provisions of this subchapter and be placed in:
- (i) An outer packaging that conforms to the performance criteria of Air Transport Association (ATA) Specification 300 for a Category I Shipping Container: or
- (ii) A metal, plastic or wood outer packaging that conforms to a UN standard at the Packing Group I or II performance level.
- (4) The aircraft operator shall securely stow the cylinder in its overpack or outer packaging in the cabin of the aircraft and shall notify the pilotin-command as specified in §175.33 of this part; and
- (5) Shipments under this paragraph (e) are not subject to—
- (i) Sections 173.302(f) and 173.304(f) of this subchapter, subpart C of part 172 of this subchapter, and, for passengers only, subpart H of part 172 of this subchapter;
- (ii) Section 173.25(a)(4) of this subchapter; and
  - (iii) Paragraph (b) of this section.

[72 FR 4456, Jan. 31, 2007, as amended at 72 FR 55099, Sept. 28, 2007]

# § 175.630 Special requirements for Division 6.1 (poisonous) material and Division 6.2 (infectious substances) materials.

- (a) A package required to bear a POI-SON, POISON INHALATION HAZARD, or INFECTIOUS SUBSTANCE label may not be carried in the same compartment of an aircraft with material which is marked as or known to be a foodstuff, feed, or any other edible material intended for consumption by humans or animals unless:
- (1) The Division 6.1 or Division 6.2 material and the foodstuff, feed, or other edible material are loaded in separate unit load devices which, when

stowed on the aircraft, are not adjacent to each other; or

- (2) The Division 6.1 or Division 6.2 material are loaded in one closed unit load device and the foodstuff, feed or other material is loaded in another closed unit load device.
- (b) No person may operate an aircraft that has been used to transport any package required to bear a POISON or POISON INHALATION HAZARD label unless, upon removal of such package, the area in the aircraft in which it was carried is visually inspected for evidence of leakage, spillage, or other contamination. All contamination discovered must be either isolated or removed from the aircraft. The operation of an aircraft contaminated with such Division 6.1 materials is considered to be the carriage of poisonous materials under paragraph (a) of this section.
- (c) When unloaded from the aircraft, each package, overpack, pallet, or unit load device containing a Division 6.2 material must be inspected for signs of leakage. If evidence of leakage is found, the cargo compartment in which the package, overpack, or unit load device was transported must be disinfected. Disinfection may be by any means that will make the material released ineffective at transmitting disease.

[71 FR 14604, Mar. 22, 2006, as amended at 71 FR 32263, June 2, 2006]

### § 175.700 Special limitations and requirements for Class 7 materials.

- (a) Except as provided in §§173.4a, 173.422 and 173.423 of this subchapter, no person may carry any Class 7 materials aboard a passenger-carrying aircraft unless that material is intended for use in, or incident to research (See §171.8 of this subchapter), medical diagnosis or treatment. Regardless of its intended use, no person may carry a Type B(M) package aboard a passenger-carrying aircraft, a vented Type B(M) package aboard any aircraft, or a liquid pyrophoric Class 7 material aboard any aircraft.
- (b) Limits for transport index and criticality safety index. A person may carry the following Class 7 (radioactive) materials aboard an aircraft only when—
  - (1) On a passenger-carrying aircraft—

- (i) Each single package on the aircraft has a transport index no greater than 3.0;
- (ii) The combined transport index and the combined criticality index of all the packages on the aircraft are each no greater than 50.
  - (2) On a cargo aircraft—
- (i) Each single package on the aircraft has a transport index no greater than 10.0.
- (ii) The combined transport index of all the packages on the aircraft is no greater than 200, and the combined criticality index of all the packages on the aircraft is no greater than—
- (A) 50 on a non-exclusive use cargo aircraft, or
- (B) 100 on an aircraft assigned for the exclusive use of the shipper [offeror] for the specific shipment of fissile Class 7 material. Instructions for the exclusive use must be developed by the shipper [offeror] and carrier, and the instructions must accompany the shipping papers.
- (3) The combined transport index and combined criticality index are determined by adding together the transport index and criticality index numbers, respectively, shown on the labels of the individual packages.
- (c) No person may carry in a passenger-carrying aircraft any package required to be labeled RADIOACTIVE YELLOW-II or RADIOACTIVE YELLOW-III label unless the package is carried on the floor of the cargo compartment or freight container.

 $[71\ FR\ 14604,\ Mar.\ 22,\ 2006,\ as\ amended\ at\ 74\ FR\ 2268,\ Jan.\ 14,\ 2009]$ 

#### § 175.701 Separation distance requirements for packages containing Class 7 (radioactive) materials in passenger-carrying aircraft.

(a) The following table prescribes the minimum separation distances that must be maintained in a passenger-carrying aircraft between Class 7 (radioactive) materials labeled RADIOACTIVE YELLOW-II or RADIOACTIVE YELLOW-III and passengers and crew:

Transport index or sum of transport indexes of all pack- ages in the aircraft or	Minimum separation distances	
predesignated area	Centimeters	Inches
0.1 to 1.0	30	12
1.1 to 2.0	50	20
2.1 to 3.0	70	28

ages in the aircraft or predesignated area         Centimeters         Inches           3.1 to 4.0         85         34           4.1 to 5.0         100         40           5.1 to 6.0         115         46           6.1 to 7.0         130         52           7.1 to 8.0         145         57           8.1 to 9.0         155         61           9.1 to 10.0         165         65           10.1 to 11.0         175         69           11.1 to 12.0         185         73           12.1 to 13.0         195         77           13.1 to 14.0         205         81           14.1 to 15.0         215         85           15.1 to 16.0         225         89           16.1 to 17.0         235         93           17.1 to 18.0         245         97           18.1 to 20.0         260         102           20.1 to 25.0         290         114           25.1 to 30.0         320         126           35.1 to 40.0         375         148           40.1 to 45.0         400         157           45.1 to 50.0         425         167	Transport index or sum of transport indexes of all pack-	Minimum separation distances		
4.1 to 5.0     100       5.1 to 6.0     115       6.1 to 7.0     130       7.1 to 8.0     145       8.1 to 9.0     155       9.1 to 10.0     165       10.1 to 11.0     175       12.1 to 13.0     195       13.1 to 14.0     205       14.1 to 15.0     215       15.1 to 16.0     225       16.1 to 17.0     235       18.1 to 20.0     260       10.1 to 25.0     290       11.1 to 30.0     320       12.1 to 33.0     350       13.1 to 4.0     375       14.1 to 15.0     290       15.1 to 16.0     375       14.1 to 25.0     375       14.1 to 25.0     375       14.1 to 25.0     375       14.2 to 34.0     375       14.3 to 40.0     400       15.1 to 45.0     400	ages in the aircraft or predesignated area	Centimeters	Inches	
5.1 to 6.0         115         46           6.1 to 7.0         130         52           7.1 to 8.0         145         57           8.1 to 9.0         155         61           9.1 to 10.0         165         65           10.1 to 11.0         175         69           11.1 to 12.0         185         73           12.1 to 13.0         195         77           13.1 to 14.0         205         81           14.1 to 15.0         215         85           15.1 to 16.0         225         89           16.1 to 17.0         235         93           17.1 to 18.0         245         97           18.1 to 20.0         260         102           20.1 to 25.0         290         114           25.1 to 30.0         320         126           30.1 to 35.0         350         138           35.1 to 40.0         375         148           40.1 to 45.0         400         157	3.1 to 4.0	85	34	
6.1 to 7.0     130     52       7.1 to 8.0     145     57       8.1 to 9.0     155     61       9.1 to 10.0     165     65       10.1 to 11.0     175     69       11.1 to 12.0     185     73       12.1 to 13.0     195     77       13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157	4.1 to 5.0	100	40	
7.1 to 8.0     145     57       8.1 to 9.0     155     61       9.1 to 10.0     165     65       10.1 to 11.0     175     69       11.1 to 12.0     185     73       12.1 to 13.0     195     77       13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157	5.1 to 6.0	115	46	
8.1 to 9.0     155       9.1 to 10.0     165       9.1 to 10.0     165       10.1 to 11.0     175       69     11.1 to 12.0       11.1 to 12.0     185       73     12.1 to 13.0       12.1 to 13.0     205       81     14.1 to 15.0       15.1 to 16.0     225       89     35       15.1 to 17.0     235       93     17.1 to 18.0       245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157	6.1 to 7.0	130	52	
9.1 to 10.0     165       10.1 to 11.0     175       69     11.1 to 12.0       11.1 to 12.0     185       73     195       12.1 to 13.0     195       13.1 to 14.0     205       81     14.1 to 15.0       15.1 to 16.0     225       89     16.1 to 17.0       18.1 to 20.0     260       20.1 to 25.0     290       25.1 to 30.0     320       30.1 to 35.0     350       35.1 to 40.0     375       40.1 to 45.0     400       155       73       10.2     157       10.3     157       10.4     157	7.1 to 8.0	145	57	
10.1 to 11.0     175     69       11.1 to 12.0     185     73       12.1 to 13.0     195     77       13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157			61	
11.1 to 12.0     185     73       12.1 to 13.0     195     77       12.1 to 14.0     205     81       13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157	9.1 to 10.0	165	65	
12.1 to 13.0     195     77       13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157	10.1 to 11.0	175	69	
13.1 to 14.0     205     81       14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157			73	
14.1 to 15.0     215     85       15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
15.1 to 16.0     225     89       16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
16.1 to 17.0     235     93       17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
17.1 to 18.0     245     97       18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
18.1 to 20.0     260     102       20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157			93	
20.1 to 25.0     290     114       25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
25.1 to 30.0     320     126       30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
30.1 to 35.0     350     138       35.1 to 40.0     375     148       40.1 to 45.0     400     157				
35.1 to 40.0	25.1 to 30.0	320		
40.1 to 45.0	••••			
	••••			
45.1 to 50.0				
	45.1 to 50.0	425	167	

- (b) When transported aboard passenger-carrying aircraft packages, overpacks or freight containers labeled Radioactive Yellow-II or Radioactive Yellow-III must be separated from live animals by a distance of at least 0.5 m (20 inches) for journeys not exceeding 24 hours, and by a distance of at least 1.0 m (39 inches) for journeys longer than 24 hours.
- (c) Except as provided in paragraph (d) of this section, the minimum separation distances prescribed in paragraphs (a) and (b) of this section are determined by measuring the shortest distance between the surfaces of the Class 7 (radioactive) materials package and the surfaces bounding the space occupied by passengers or animals. If more than one package of Class 7 (radioactive) materials is placed in a passenger-carrying aircraft, the minimum separation distance for these packages shall be determined in accordance with paragraphs (a) and (b) of this section on the basis of the sum of the transport index numbers of the individual packages or overpacks.
- (d) Predesignated areas. A package labeled RADIOACTIVE YELLOW-II or RADIOACTIVE YELLOW-III may be carried in a passenger-carrying aircraft

in accordance with a system of predesignated areas established by the aircraft operator. Each aircraft operator that elects to use a system of predesignated areas shall submit a detailed description of the proposed system to the Associate Administrator for approval prior to implementation of the system. A proposed system of predesignated areas is approved if the Associate Administrator determines that it is designed to assure that:

- (1) The packages can be placed in each predesignated area in accordance with the minimum separation distances prescribed in paragraph (a) of this section; and
- (2) The predesignated areas are separated from each other by minimum distance equal to at least four times the distances required by paragraphs (a) and (b) of this section for the predesignated area containing packages with the largest sum of transport indexes.

#### § 175.702 Separation distance requirements for packages containing Class 7 (radioactive) materials in cargo aircraft.

- (a) No person may carry in a cargo aircraft any package required by §172.403 of this subchapter to be labeled Radioactive Yellow-II or Radioactive Yellow-III unless:
- (1) The total transport index for all packages does not exceed 50.0 and the packages are carried in accordance with §175.701(a); or
- (2) The total transport index for all packages exceeds 50.0; and
- (i) The separation distance between the surfaces of the radioactive materials packages, overpacks or freight containers and any space occupied by live animals is at least 0.5 m (20 inches) for journeys not exceeding 24 hours and at least 1.0 m (39 inches) for journeys longer than 24 hours; and
- (ii) The minimum separation distances between the radioactive material and any areas occupied by persons that are specified in the following table are maintained:

Transport index or sum of transport indexes of all packages in the aircraft of	Minimum separation distances			
predesignated area	Centimeters	Inches		
50.1 to 60.0 60.1 to 70.0	465 505	183 199		

Transport index or sum of transport indexes of all packages in the aircraft of	Minimum separation distances		
predesignated area	Centimeters	Inches	
70.1 to 80.0	545	215	
80.1 to 90.0	580	228	
90.1 to 100.0	610	240	
100.1 to 110.0	645	254	
110.1 to 120.0	670	264	
120.1 to 130.0	700	276	
130.1 to 140.0	730	287	
140.1 to 150.0	755	297	
150.1 to 160.0	780	307	
160.1 to 170.0	805	317	
170.1 to 180.0	830	327	
180.1 to 190.0	855	337	
190.1 to 200.0	875	344	

- (b) The criticality safety index of any single group of packages must not exceed 50.0 (as used in this section, the term "group of packages" means packages that are separated from each other in an aircraft by a distance of 6 m (20 feet) or less); and
- (c) Each group of packages must be separated from every other group in the aircraft by not less than 6 m (20 feet), measured from the outer surface of each group.

[71 FR 14604, Mar. 22, 2006, as amended at 71 FR 54396, Sept. 14, 2006]

#### § 175.703 Other special requirements for the acceptance and carriage of packages containing Class 7 materials.

- (a) No person may accept for carriage in an aircraft packages of Class 7 materials, other than limited quantities, contained in a rigid or non-rigid overpack, including a fiberboard box or plastic bag, unless they have been prepared for shipment in accordance with §172.403(h) of this subchapter.
- (b) Each shipment of fissile material packages must conform to the requirements of §§173.457 and 173.459 of this subchapter.
- (c) No person shall offer or accept for transportation, or transport, by air—
- (1) Vented Type B(M) packages, packages which require external cooling by an ancillary cooling system or packages subject to operational controls during transport; or
- (2) Liquid pyrophoric Class 7 (radioactive) materials.
- (d) Packages with radiation levels at the package surface or a transport index in excess of the limits specified

in §173.441(a) of this subchapter may not be transported by aircraft except under special arrangements approved by the Associate Administrator.

#### §175.704 Plutonium shipments.

Shipments of plutonium which are subject to 10 CFR 71.88(a)(4) must comply with the following:

- (a) Each package containing plutonium must be secured and restrained to prevent shifting under normal conditions.
- (b) A package of plutonium having a gross mass less than 40 kg (88 pounds) and both its height and diameter less than 50 cm (19.7 inches)—
- (1) May not be transported aboard an aircraft carrying other cargo required to bear a Division 1.1 label; and
- (2) Must be stowed aboard the aircraft on the main deck or the lower cargo compartment in the aft-most location that is possible for cargo of its size and weight, and no other cargo may be stowed aft of packages containing plutonium.
- (c) A package of plutonium exceeding the size and weight limitations in paragraph (b) of this section—
- (1) May not be transported aboard an aircraft carrying other cargo required to bear any of the following labels: Class 1 (all Divisions), Class 2 (all Divisions), Class 3, Class 4 (all Divisions), Class 5 (all Divisions), or Class 8; and
- (2) Must be securely cradled and tied down to the main deck of the aircraft in a manner that restrains the package against the following internal forces acting separately relative to the deck of the aircraft; Upward, 2g; Forward, 9g; Sideward, 1.5g; Downward, 4.5g.

#### § 175.705 Radioactive contamination.

(a) A carrier shall take care to avoid possible inhalation, ingestion, or contact by any person with Class 7 (radioactive) materials that may have been released from their packagings.

(b) When contamination is present or suspected, the package containing a Class 7 material, any loose Class 7 material, associated packaging material, and any other materials that have been contaminated must be segregated as far as practicable from personnel contact until radiological advice or assistance is obtained from the U.S. Department of Energy or appropriate State or local radiological authorities.

(c) An aircraft in which Class 7 material has been released must be taken out of service and may not be returned to service or routinely occupied until the aircraft is checked for radioactive contamination and it is determined in accordance with §173.443 of this subchapter that the dose rate at every accessible surface is less than 0.005 mSv per hour (0.5 mrem per hour) and there is no significant removable surface contamination.

(d) Each aircraft used routinely for transporting Class 7 materials shall be

periodically checked for radioactive contamination, and an aircraft must be taken out of service if contamination exceeds the level specified in paragraph (c). The frequency of these checks shall be related to the likelihood of contamination and the extent to which Class 7 materials are transported.

(e) In addition to the reporting requirements of (§§171.15 and 171.16 of this subchapter and §175.31 of this part, an aircraft operator shall notify the offeror at the earliest practicable moment following any incident in which there has been breakage, spillage, or suspected radioactive contamination involving Class 7 (radioactive) materials shipments.

#### § 175.706 Separation distances for undeveloped film from packages containing Class 7 (radioactive) materials.

No person may carry in an aircraft any package of Class 7 (radioactive) materials required by §172.403 of this subchapter to be labeled Radioactive Yellow-III or Radioactive Yellow-III closer than the distances shown in the table below to any package marked as containing underdeveloped film.

Transport index	Minimum separation distance to nearest undeveloped film for various times in transit									
	Up to 2 hours		2 to 4 hours		4 to 8 hours		8 to 12 hours		Over 12 hours	
	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
0.1 to 1.0	0.3	1	0.6	2	0.9	3	1.2	4	1.5	5
1.1 to 5.0	0.9	3	1.2	4	1.8	6	2.4	8	3.3	11
5.1 to 10.0	1.2	4	1.8	6	2.7	9	3.3	11	4.5	15
10.1 to 20.0	1.5	5	2.4	8	3.6	12	4.8	16	6.6	22
20.1 to 30.0	2.1	7	3	10	4.5	15	6	20	8.7	29
30.1 to 40.0	2.4	8	3.3	11	5.1	17	6.6	22	9.9	33
40.1 to 50.0	2.7	9	3.6	12	5.7	19	7.2	24	10.8	36

### § 175.900 Handling requirements for carbon dioxide, solid (dry ice).

Carbon dioxide, solid (dry ice) when shipped by itself or when used as a refrigerant for other commodities, may be carried only if the operator has made suitable arrangements based on the aircraft type, the aircraft ventilation rates, the method of packing and stowing, whether animals will be carried on the same flight and other factors. The operator must ensure that the ground staff is informed that the dry ice is being loaded or is on board

the aircraft. For arrangements between the shipper and operator, see §173.217 of this subchapter. Where dry ice is contained in a unit load device (ULD) or other type of pallet prepared by a single shipper in accordance with §173.217 and the operator after the acceptance adds additional dry ice, the operator must ensure that the information provided to the Pilot-in-Command and the marking on the ULD when used as a packaging reflects that revised quantity of dry ice.

[73 FR 4719, Jan. 28, 2008]